

Appl. No. 09/997,652
Amtd. Dated December 27, 2005
Reply to Office Action of August 25, 2005

Amendments to the Claims:

This listing will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently amended): A disposable diaper comprising:

a cover member having front and rear waist regions and a crotch region; and
a body fluid absorbent member attached to an inner surface of said cover member;
said body fluid absorbent member extending in a longitudinal direction across said crotch
region into said front and rear waist regions, said body fluid absorbent member having front and rear
end portions that are fixed to the inner surface of said cover member at said front and rear end
portions thereof,

said body fluid absorbent member including a liquid-pervious topsheet to be placed against a
wearer's body, a backsheet to be placed against said inner surface of said cover member, and a body
fluid absorbent core disposed between the liquid-pervious topsheet and said backsheet, said body
fluid absorbent core being formed on a side facing said backsheet with at least one groove that is
concave in a direction from said backsheet toward said topsheet, each of said at least one groove
consists of a first segment that extends continuously into the crotch region and the front waist region
and a second segment that extends continuously into the crotch region and the rear waist region, said

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first and second segments of each individual ones of said at least one groove being aligned with one another longitudinally, and being excluded from extending across a longitudinal center of the crotch region of the diaper and being excluded from extending into the front and rear end portions of the diaper, and being adjacent one another in the longitudinal direction but for the exclusion from the longitudinal center of the crotch region, said body fluid absorbent member having a longitudinal length that extends between and to the front and rear end portions of the diaper.

Claim 2 (Previously presented): The disposable diaper according to claim 1, further comprising at least one groove that extends in a direction orthogonal to said longitudinal direction.

Claim 3 (Previously presented): The disposable diaper according to Claim 1, wherein said first and second segments of said at least one groove extend in said longitudinal direction and said disposable diaper further comprises at least one second groove extending in a direction orthogonal to the longitudinal direction so that said at least one second groove intersects one of said first and second segments of said at least one groove and said at least one second groove extends to transversely opposite side edges of said body fluid absorbent member.

Claim 4 (Previously presented): The disposable diaper according to Claim 1, wherein said body fluid absorbent core is formed on a side facing said topsheet with at least one further groove that is

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concave in a direction from said topsheet toward said backsheet and extends in said longitudinal direction across said crotch region into said front and rear regions.

Claim 5 (Previously presented): The disposable diaper according to Claim 4, wherein said at least one further groove is positioned to be substantially aligned with said at least one groove.

Claim 6 (Currently amended): The disposable diaper according to Claim 3, wherein said body fluid absorbent core is disposed between said backsheet which is also formed with said at least one first groove and said at least one second groove and the topsheet opposed to said backsheet.

Claim 7 (Previously presented): The disposable diaper according to Claim 4, wherein said body fluid absorbent core is disposed between said topsheet which is also formed with said at least one further groove and the backsheet opposed to said topsheet.

Claim 8 (Previously presented): The disposable diaper according to Claim 1, wherein said body fluid absorbent member is detachably fixed to said cover member.

Claim 9 (New): The disposable diaper according to Claim 1, wherein said first and second segments of each individual ones of said at least one groove are collinear.